



Avago Technologies Expands Industry-Leading Low-Noise Amplifier Portfolio with Four New High-Linearity Offerings

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Two LNAs with Bypass and Shutdown Functionality Lower Current Draw of WiFi and WiMAX Data Cards; Two LNAs Minimize Component Count for Cellular Infrastructure Applications

SAN JOSE, Calif. & SINGAPORE, Apr 19, 2011 (BUSINESS WIRE) -- Avago Technologies (Nasdaq:[AVGO](#)), a leading supplier of analog interface components for communications, industrial and consumer applications, today announced four low-noise amplifiers (LNAs) to extend the RF performance and diversity of its market-leading LNA portfolio. The new modules feature high linearity that improves an application's ability to distinguish between desired signals and spurious signals received close together. The [MGA-6x606](#) LNAs target WiFi and WiMAX data cards, handsets and other portable devices, while the two-stage [MGA-13x16](#) LNAs target GSM, CDMA and W-CDMA cellular infrastructure applications such as base station radio cards.

The new Avago easy-to-use Monolithic Microwave Integrated Circuit (MMIC) LNAs leverage the company's proprietary 0.25 um GaAs Enhancement-mode pHEMT process to achieve leading low noise figures and high linearity. The 1.5-3.0 GHz [MGA-64606](#) LNA and 2.5-4.0 GHz [MGA-65606](#) LNA have switchable shutdown and bypass functionality that enables them to be bypassed during periods of high input signal power. This feature reduces current consumption, conserving battery-life in portable devices. The MGA-64606 addresses GPS, WiMAX, WLAN, WiBro and DMB and other applications, while the MGA-65606 addresses WiMAX, Wireless Local Loop and other applications.

For cellular infrastructure manufacturers, minimizing the count of radio components is a key concern, particularly at the receiving side after the antenna. The 0.4-1.5 GHz [MGA-13116](#) LNA and 1.5-2.5 GHz [MGA-13216](#) LNA enable usage of a single LNA, instead of the two components normally required, while still delivering low noise with good input return loss, high linearity and high gain. Designers can achieve optimum performance with minimum matching at the input, output and the inter-stage between the two LNAs.

Additional MGA-6x606 Product Features

- Adjustable bias current
- High linearity in both LNA and bypass modes
- Low current consumption in bypass mode of less than 100 uA
- 2.0 by 1.3 mm SMT package

Additional MGA-13x16 Product Features

- Excellent isolation performance
- MGA-13116 exhibits 0.51 dB noise figure and 38 dB gain at 0.9 GHz
- MGA-13216 exhibits 0.61 dB noise figure and 35.8 dB gain at 1.95 GHz
- 4.0 by 4.0 by 0.85 mm 16-lead QFN package

U.S. Pricing and Availability

The MGA-64606 and MGA-65606 LNAs are priced at \$0.73 each in 10,000 piece quantities, and the MGA-13116 and MGA-13216 LNAs are priced at \$2.50 each in 10,000 piece quantities. Samples and production quantities are available now through the Avago direct sales channel and via worldwide distribution partners. More information about the latest Avago LNA products can be found at: www.avagotechwireless.com.

About Avago Technologies

Avago Technologies is a leading supplier of analog interface components for communications, industrial and consumer applications. By leveraging its core competencies in III-V compound and silicon semiconductor design and processing, the company provides an extensive range of analog, mixed signal and optoelectronics components and subsystems to approximately 40,000 end customers. Backed by strong customer service support, the company's products serve four diverse end markets: wireless communications, wired infrastructure, industrial and automotive electronics, and consumer and computing peripherals. Avago has a global employee presence and heritage of technical innovation dating back nearly 50 years to its Hewlett-Packard roots. Information about Avago is available on the Web at www.avagotech.com.

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